

## DESCRIPTION

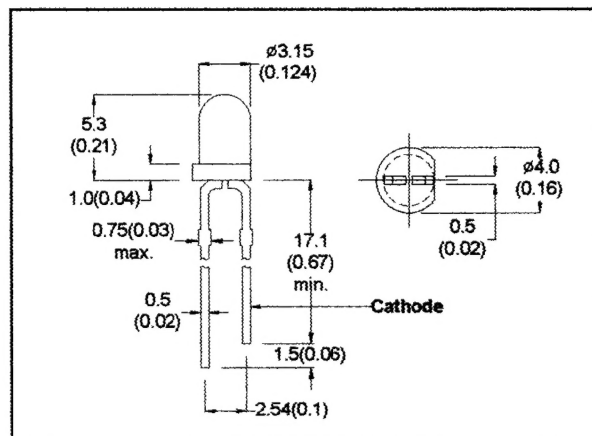
MS31XA Series are ultra high brightness GaAlAs red LED lamp with 3mm diameter epoxy package.

MS31CA is GaAlAs red chip with red transparent lens.

MS31DA is GaAlAs red chip with red diffused lens.

MS31TA is GaAlAs red chip with clear transparent lens.

MS31WA is GaAlAs red chip with clear diffused lens.



- All Dimension in mm (inch)
- No Scale
- Tol : + / - 0.3mm

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation @Ta=25°C

Forward Current, DC (IF)

Reverse Voltage

Operating & Storage Temperature Range

Lead Soldering Temperature (1/16" from body)

100mW

40mA

5V

-55 to +100°C

260°C for 5 sec.

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MS31CA	MS31DA	MS31TA	MS31WA	UNIT	CONDITIONS
Forward Voltage	MAX VF	2.4	2.4	2.4	2.4	V	IF=20mA
Reverse Breakdown Voltage	MIN BVR	5	5	5	5	V	IR=100 $\mu$ A
Luminous Intensity	MIN IV	50	20	50	20	mcd	IF=20mA
	TYP	75	30	75	30	mcd	
Peak Wavelength	TYP $\lambda_p$	660	660	660	660	nm	IF=20mA
Spectral Line Half Width	TYP $\Delta\lambda$	20	20	20	20	nm	IF=20mA
Viewing Angle	TYP $2\theta$	40	60	40	60	degree	IF=20mA

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